

1646

RAW SEQUENCE LISTING DATE: 01/11/2001
PATENT APPLICATION: US/09/029,042C TIME: 11:19:26

Input Set : N:\paola\PTO.txt
Output Set: N:\CRF3\01112001\T029042C.raw

Does Not Comply
Corrected Diskette Needed

4 <110> APPLICANT: Kim, Sun-Young
5 Kim, Kee-Won
6 Kim, Tae-Han
7 Hwang, Jeong-Ho
8 Kim, Seon-Hee
9 Lee, Sun-Young
11 <120> TITLE OF INVENTION: Heterologous Protein Production System using Avian Cells
OK>
0 <130> FILE REFERENCE:
13 <140> CURRENT APPLICATION NUMBER: US 09/029,042C
15 <141> CURRENT FILING DATE: 1998-05-15
17 <150> PRIOR APPLICATION NUMBER: PCT/KR96/00145
19 <151> PRIOR FILING DATE: 1996-08-23
21 <160> NUMBER OF SEQ ID NOS: 11

ERRORED SEQUENCES

68 <210> SEQ ID NO: 2
70 <211> LENGTH: 1533 1533 shown (p.2)
72 <212> TYPE: DNA
74 <213> ORGANISM: erythropoietin
76 <400> SEQUENCE: 2
78 atgggggtgc acgaatgtcc tgcctggctg tggttttcgc tgcctgtgtc 50
79 gtcgtccct ctggggctcc cagtccttggg cgcggccacca cgcgtttact 100
80 gtcaacggcc aqtccttgaa agttacccctt tggggggccaa ggaggccqag 150
81 aataatccggg ttagggccctt tccccggcac attcacacaga aetcacgtc 200
82 aqgttcgg gggatccctt ccagatccgg gaaccttggca cttgggtttgg 250
83 ygtggggatgg gggaaatggaa cactggccccc ctacataaaga ataagtctgg 300
84 tqggcccaaa ccatacttgg aaactlaggca aqggacaaag ccagcagatc 350
85 ctaecccgtt gggccggggc aqagcccttcg qggggcccttq actccccqqq 400
86 ctgtgtcat ttccagccggg ctgtgtctgg aactgtcact tgaatggaaa 450
87 taatccgttc ccagacacca aqgtttttttt ctatcgcttgg aagaggatgg 500
88 aqgttggatcc ttttttttttt tttttttttt tctttttggag aatcttcattt 550
89 qcgaaatgtt gtttggalga aaggqqaat gatcgaggaa aaggtaataat 600
90 ggaaatggccatc agatggggctt gcttggggcc agaggccatc gctctataatc 650
91 ccagggttgg alggccggaa tggggaaaattt qcttggccctt tgggggttca 700
92 gaccacccatc qgcgtatgg tggatccccc catcttcataa aacattlaaa 750
93 aaaaatgttc aggttggatgg gtgtatggglg ttagtcccaag atatttggaa 800
94 qgctggggcq ggaggatccgc ttggatcccaag gaatttgggg ctgcgttgt 850
95 ctgtgtccatc accacttgcac tccggccatc qtggacatgtt qggggccctgt 900
96 ctcaaaaaaa aaaaagaaaaaa agaaaaataaa tgggggtgtt alggaaatcc 950
97 tcatatatic attcacatcc tcaatccatc atccatccatc tcatatccatc 1000
98 aacatgtttt attgtatacc ttctgtttgc tcaagtttgtt gtttggatgt 1050
99 ccacatccatc taggttgggc aqccaggccatc agaaatgttgg caggccctgg 1100
100 ccctctgtc gggaaatgttc ttcggggggcc agggccctgg ggttcataatc 1150
101 tccatccatc gggaggccatc qcaatgtcat gtgtatggaaatc cccgttcatgg 1200
102 ccctccatc ttcacccatc tgccttgggc tctggggcc cagggttggatgt 1250

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1533

103 ggagcgagata ctttcgttgc cccttctgt aagaaggggga gaagggtctt 1300
 104 gctaaggatc acaggaaatcg tccgttatcc ttccttctt gtggcaactgc 1350
 105 aqgacacctcc tqttttctec ttggcagaqaq qaaccatct cccctcccaqa 1400
 106 tgcggctcc gctgtccac tccaaacat caactgtgc accttccyca 1450
 107 aacttctccg agtctactcc aatttctecg ygggaaagct gaagctgtac 1500
 108 acaggggagg cctgcaggac aggggacaca tga 1583

E--> 247 <210> SEQ ID NO: 6
 249 <211> LENGTH: 1587
 251 <212> TYPE: DNA
 253 <213> ORGANISM: erythropoietin
 255 <400> SEQUENCE: 6

257 atqqqqqtqc acgaaatqcc tgcctggctq tggttttctcc tgccctgtc 50
 258 gtcacccct ctgggctcc cagtcctggg ccccccccaea cccctatct 100
 259 gtgacaqccg aqtccttggag uggtacccct tgguggccaa ugaggcggag 150
 260 aaatccatcgq tqaqaccctt tcccaqrc ac tccacaca qaaatccatcg 200
 261 aqggcttcq gqqaactctt cccaggatcc aqqaacccctgg cacttqttt 250
 262 qgggttgqaa qggqaaqctt qaaactqccc ccctacataa qataaqtct 300
 263 ggttqcccca aaccataact qgaaacttgg caaggaaqca aqccagcaq 350
 264 tccatacgcc tqtgtggccag ggcacagaccc ttcauqqacc ctgtactcc 400
 265 cqqjctqlq qatccatcgq cqqjctgtc tqaacactgc aqettqatq 450
 266 aquatatactc tgcctccaaqcc accaaagtta atttcctatgc ctggaaqagg 500
 267 atggaggttq gttcttltl tttttttt cccttctttt ggagaatctc 550
 268 atttccqaaq ctgatittggg atgaaaaggga qaatatcga gggaaaggta 600
 269 aaatggaaqca gcagagatga qtcgtcccg ggcacagacq ttcagttat 650
 270 aatcccaqcc tqaqatqcc qatgtggqag aatttqetttga geccttqagg 700
 271 ttcuqaccaa cctagcgcg ctatgtgatcc cccccatctc taaaacactt 750
 272 taaaaaaattt agtccaaqtgq aqrgtgcgtc ggtgtatqtc ccqatattt 800
 273 gqaagytcga qggcgggagga tgcgttgcgc ccaggattt gaggtgcgc 850
 274 tgaqctgtca tcacaccaact qcactccacgc ctcaqgtaca qatgtggcc 900
 275 ctgtctcaaa aaagaaaaga aaaqaaaaaa attatqaggg ctgtatggca 950
 276 tacatctattt attcacatcc tcactcactc actcatctatc tccatcatc 1000
 277 attcacaucaq tctttatgtc taccccttgc ttgtctact ttgtgtttq 1050
 E--> 278 ggctgttag gggcaggagg gagaggggtga catgggttca ctgactccca 1100
 279 gagtcacatc cctgttagtc qggcagcagg cctgtagaatl clqjcgaggcc 1150
 280 clggccctgc tttcgaaagc tttccgtgggg qggcaggccct ttttgttca 1200
 281 ctttccatcg ccgtggggcc ccctgtcactt gatgttgat 1250
 282 qtggcccttcq cagccatccac actctgttcc qggctctggg aqcccaqgtq 1300
 283 agttagggccg qacacttctg cttyccctt ctgtaaagaag ggggagaagg 1350
 284 ttttgttaag gatgtacagya ttttgtggta tttcttccct ttttgtggca 1400
 285 ctgcagcgcac caccgtttt ctcccttggca qaaggaaqcc atctcccttc 1450
 286 cagatccqcc ctcagctgtcc cccatccggaa caatcaactgc tgacactttc 1500
 287 egcaaaactctt ccgtgtata ctccaaatttc ctccggggag agtgtaaagct 1550
 288 qtacacagg qggctgtca qgacaggaggaa cggatga 1587

407 <210> SEQ ID NO: 10
 409 <211> LENGTH: 193
 411 <212> TYPE: PRT
 413 <213> ORGANISM: crythropoietin gene
 415 <400> SEQUENCE: 10

417 Met Gly Val His Glu Cys Pro Ala Trp Leu Trp Leu Leu Leu Ser Ieu

do 1
2
3

next page

do not use "i" in the sequence itself;
use "n" and place in
(2207-2237 section

next page

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Input Set : N:\paola\PTO.txt
Output Set: N:\CRF3\01112001\I029042C.raw

418 1 5 10 15
 419 Leu Ser Leu Pro Leu Gly Leu Pro Val Leu Gly Ala Pro Pro Arg Leu
 420 20 25 30
 421 Ile Cys Asp Arg Arg Val Leu Glu Arg Tyr Leu Leu Glu Ala Lys Glu
 422 35 40 45
 423 Ala Glu Asn Ile Thr Thr Gly Cys Ala Glu His Cys Ser Leu Asn Glu
 424 50 55 60
 425 Asn Ile Thr Val Pro Asp Thr Lys Val Asn Phe Tyr Ala Trp Lys Arg
 426 65 70 75 80
 427 Met Glu Val Gly Gln Gln Ala Val Glu Val Trp Gln Gly Leu Ala Leu
 428 85 90 95
 429 Leu Ser Glu Ser Val Val Arg Gly Gln Ala Leu Leu Val Asn Ser Ser
 430 100 105 110 115 *Erased numbers*
 431 Gln Pro Trp Glu Pro Leu Gln Leu His Val Asp Lys Ala Val Ser Gly
 432 115 120 125
 E--> 433 Leu Arg Ser Leu Thr Thr Leu Leu Arg Ala Leu Gly Ala Glu Lys Glu
 434 130 135 140
 E--> 435 Ala Ile Ser Pro Pro Asp Ala Ala Ser Ala Ala Pro Leu Arg Thr Ile
 436 145 150 155 160
 E--> 437 Thr Ala Asp Thr Phe Arg Lys Leu Phe Arg Val Tyr Ser Asn Phe Leu
 438 165 170 175
 E--> 439 Arg Gly Lys Leu Lys Leu Tyr Thr Gly Glu Ala Cys Arg Thr Gly ASP
 440 180 185 190
 E--> 441 Arg
 445 <210> SEQ ID NO: 11
 447 <211> LENGTH: 193
 449 <212> TYPE: PRT
 451 <213> ORGANISM: erythropoietin gene
 453 <400> SEQUENCE: 11
 455 Met Gly Val His Glu Cys Pro Ala Trp Leu Trp Leu Leu Ser Leu
 456 1 5 10 15
 457 Leu Ser Leu Pro Leu Gly Leu Pro Val Leu Gly Ala Pro Pro Arg Leu
 458 20 25 30
 459 Ile Cys Asp Ser Arg Val Leu Glu Arg Tyr Leu Leu Glu Ala Lys Glu
 460 35 40 45
 461 Ala Glu Asn Ile Thr Thr Gly Cys Ala Glu His Cys Ser Leu Asn Glu
 462 50 55 60
 463 Asn Ile Thr Val Pro Asp Thr Lys Val Asn Phe Tyr Ala Trp Lys Arg
 464 65 70 75 80
 465 Met Glu Val Gly Gln Gln Ala Val Glu Val Trp Gln Gly Leu Ala Leu
 466 85 90 95
 467 Leu Ser Glu Ala Val Leu Arg Gly Gln Ala Leu Leu Val Asn Ser Ser
 468 100 105 110
 469 Gln Pro Trp Glu Pro Leu Gln Leu His Val Asp Lys Ala Val Ser Gly
 470 115 120 125
 471 Leu Arg Ser Leu Thr Thr Leu Leu Arg Ala Leu Gly Ala Glu Lys Glu
 472 130 135 140
 473 Ala Ile Ser Pro Pro Asp Ala Ala Ser Ala Ala Pro Leu Arg Thr Ile
 474 145 150 155 160

next page

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Input Set : N:\paola\PTO.txt
Output Set: N:\CRF3\01112001\I029042C.raw

475 Thr Ala Asp Thr Phe Arg Lys Leu Phe Arg Val Tyr Ser Asn Phe Leu
476 165 170 175
477 Arg Gly Glu Leu Lys Leu Tyr Thr Gly Glu Ala Cys Arg Thr Gly Asp
478 180 185 190
479 Gly
E--> 480 1

delete at end of file

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/029,042C DATE: 01/11/2001
TIME: 11:19:27

Input Set : N:\paola\PTO.txt
Output Set: N:\CRF3\01112001\I029042C.raw

L:0 M:201 W: Mandatory field data missing, FILE REFERENCE
L:108 M: 254 E: No. of Bases conflict, LENGTH:Input:1583 Counted:1533 SEQ:2
L:108 M:252 E: No. of Seq. differs, <211>LENGTH:Input:1583 Found:1533 SEQ:2
L:278 M:320 E: (1) Wrong Nucleic Acid designator, NUMBER OF INVALID KEYS:1
L:430 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:10
M:332 Repeated in SeqNo:10
L:480 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:11

1/11/01

file:///C:/CrF3/Outhold/VsrI029042C.htm

**RAW SEQUENCE LISTING
ERROR REPORT**

BIOTECHNOLOGY
SYSTEMS
BRANCH

1620

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number 09/029,042 C

Source 1646

Date Processed by STIC 11/11/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT WITH A NOTICE TO COMPLY OR,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY.

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin30help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be downloaded from the USPTO website at the following address:
<http://www.uspto.gov/web/offices/pac/checker>